

WHAT IS CLAIMED IS:

1. An isolated polynucleotide comprising a contiguous
5 stretch of at least about 60 nucleotides first disclosed in at
least one of SEQ ID NOS: 1-1,461.

2. An isolated polynucleotide according to Claim 1,
wherein said polynucleotide sequence comprises at least one of
10 SEQ ID NOS: 1-1,461.

3. An *in vitro* process for producing an isolated
polynucleotide incorporating a sequence capable of hybridizing
to a sequence first disclosed in one of SEQ ID NOS: 1-1,461,
15 comprising the steps of:

- a) obtaining a polynucleotide template encoding a
sequence capable of hybridizing to an GTS of SEQ ID
NOS: 1-1,461;
- b) contacting said template with a polynucleotide probe
20 comprising at least about 25 contiguous bases first
disclosed in SEQ ID NOS: 1-1,461;
- c) processing the combined probe and template to allow
the specific detection of the combined probe and
template; and
- 25 d) isolating a clone encoding said template.

4. The process of Claim 3 wherein said template is
mammalian cDNA.

30 5. The process of Claim 3 wherein said template is
mammalian genomic DNA.

6. A process according to Claim 4 wherein said template
is of human origin.

35 7. A process for identifying novel polynucleotide
sequences comprising the steps of:

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- a) retrieving a computer readable representation of a polynucleotide sequence first disclosed in at least one of SEQ ID NOS: 1-1,461, or an amino acid sequence encoded thereby, from a computer addressable form of electronic data storage medium;
- b) retrieving a computer readable representation of a test polynucleotide or polypeptide sequence from a computer addressable form of electronic data storage medium; and
- 10 c) comparing the sequence of said test polynucleotide or polypeptide sequence to a sequence first disclosed in at least one of SEQ ID NOS: 1-1,461, or an amino acid sequence encoded thereby.

15 / 8 An isolated murine embryonic stem cell line comprising an engineered retroviral gene trap vector in at least one gene comprising a polynucleotide sequence first disclosed in one of SEQ ID NOS: 1-1,461.